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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known	
Application Number	09/868,689
Filing Date	September 26, 2001
First Named Inventor	Hirl
Art Unit	2121
Examiner Name	Nichols
Attorney Docket Number	05222.00163

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	1	EP 0 689 132 A2	12/27/95	Laffra		
	2	EP 0 710 942 A2	05/08/96	Siefert		
	3	EP 0 798 655 A2	10/01/97	Jervis, et al.		
	4	WO 00/04478	01/27/00	Jonsson		
	5	WO 97/44766	11/27/97	Cook		
	6	WO 98/03953	01/29/98	Simmons		
	7	WO 98/25251	06/11/98	Ho		
	8	WO 98/32109	07/23/98	De Lange		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	9	"A Browser-Based System to Support & Deliver DE," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 1, Nov. 4-7, 1998	
	10	"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
	11	"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
	12	"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references	
	13	"A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994	
	14	"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997.	
	15	"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
	16	"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997	
	17	"Artificial Intelligence and Mathematics Education" at http://www.rand.org/hot/mcarthur/Papers/aied.html	
	18	"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at http://www.cs.umass/edu/~tmurray/papers/ATSummary/AuthTools.html	
	19	"Automate Your Business Plan" at www.business-plan.com/screen2.html	
	20	"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
	21	"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	22	"BrainMaker Neural Network Application Examples" at www.calsci.com/Applications.html	
	23	"Brainmaker" at www.npiec.on.ca/~echoscan/28-04.htm	
	24	"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
	25	"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	
	26	"Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14.	
	27	"Computer Dictionary", 1997, Microsoft Press, 3rd Ed., pp. 264, 276, 383, 446, 462, 507.	
	28	"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
	29	"DDD--A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
	30	"Decision Pro3.0" at www.vanguardsw.com/	
	31	"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	
	32	"Developing a WFT Workflow System", Workflow Template, Chapter 8, 1998, pp. 8-1/8-23	
	33	"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
	34	"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996, pp. 543-549.	
	35	"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
	36	"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37	
	37	"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
	38	"Engines for Education" URL: http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html; viewed Feb. 15, 1999.	
	39	"Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996	
	40	"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
	41	"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
	42	"Flexible Learning", Feb. 1998, Credit Union Management Vol. 21, No. 2, pp. 32-33+	
	43	"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
	44	"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1997	
	45	"Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," Educational Technology, Nov.-Dec. 1994	
	46	"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
	47	"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	48	"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	
	49	"Intelligent Tutoring Systems: An Overview" at http://www.intellectbooks.com/authors/lawler/its.htm	
	50	"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
	51	"Interface design issue for advice-giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
	52	"KBLPS Overview" at www.cgi.com/CGIWEB/KBLPS/overindex4.html	
	53	"Kiplinger TaxCut Press Releases" at http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html	
	54	"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
	55	"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1998, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
	56	"Multimedia Training... Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	
	57	"MUSE U.S. Patents" OCCAM Research Corporation, at www.muser.com/html/patents.html	
	58	"News for ESAP" at www.hops.wharton.upenn.edu/~esap/news.html	
	59	"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
	60	"Object Lens: A "Spreedsheet" for Cooperative Work", ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.html	
	61	"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
	62	"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
	63	"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," http://www.centurionsys.com/rtcl57.html, Aug. 1997	
	64	"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
	65	"Projects: FinPlan System" at www.rriai.org.ru/FinPlan/	
	66	"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997	
	67	"Rule-Based Programming with OPS5" at www.mkp.com/books_catalog/O-934613-51-6.asp	
	68	"Simulation Technology and Parallelism in Learning Environments" at http://www.to.utwente.nl/prj/min/Book/chapter1.htm	
	69	"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
	70	"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-130, Aug. 1995	
	71	"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141	
	72	"Socialized Collaborative Learning in Multimedia Virtual Worlds" URL: http://www.iscs.nus.edu.sg/labs/learning/lels/VRML.html; viewed Feb. 16, 1999	
	73	"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
	74	"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	
	75	"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 111-18 Dec. 1997	
	76	"Teaching with the internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	77	"Technical Report: Computer Aided Education and Training Initiative" at http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html	
	78	"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58	
	79	"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985	
	80	"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html	
	81	"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
	82	"The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story", 1996.	
	83	"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
	84	"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-154	
	85	"TurboTax Deluxe Product Information" at http://www.intuit.com/turbotax/prodinfo/ttdlx.html	
	86	"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
	87	"User-Sensitive Multimedia Presentation System," IBM Technical Disclosure Bulletin, March 1, 1996, Vol. 39, No. 3, pp. 93-94	
	88	"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-03, Nov. 1994	
	89	"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997	
	90	"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
	91	"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
	92	"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 176, 1996	
	93	"WITS: A Reusable Architecture for a VR-Based ITS" at http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html	
	94	"Principles of Object-Oriented Analysis and Design", James Martin 1993, Chapter 8, pp. 103-110	
	95	"The Prototype of the Virtual Classroom", Interactive Multimedia Distance Learning (IMDL): NLII Viewpoint, Fall/Winter 1997	

Examiner Signature		Date Considered	3/23/4

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
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Title of Invention	A System Method and Article of Manufacture for a Simulation System for a Simulation Engine with a Help Website and Processing Engine

Application Number: 09/868689 *09/868689*
Confirmation Number: 3228
First Named Applicant: Mark Nichols
Attorney Docket Number: 005222.00163
Art Unit: 2121
Examiner: Joseph P. Hirl
Search string: (4622013 or 4874784 or 4981766 or 4931950 or 4964077 or 4977529 or 5002491 or 5170464 or 5189402 or 5208745 or 5208898 or 5239617 or 5259755 or 5267865 or 5310349 or 5311422 or 5317688 or 5326270 or 5359701 or 5327507 or 5395243 or 5441415 or 5491743 or 5533903 or 5535422 or 5537141 or 5539869 or 5566291 or 5576844 or 5577186 or 5597312 or 5616033 or 5644686 or 5644727 or 5673369 or 5690496 or 5696885 or 5701400 or 5710007 or 5727161 or 5727950 or 5745652 or 5772446 or 5779468 or 5788508 or 5791907 or 5799151 or 5799292 or 5806056 or 5810747 or 5822745 or 5823781 or 5823788 or 5835683 or 5868575 or 5870768 or 5875437 or 5889845 or 5893123 or 5911581 or 5974446 or 5987443 or 6003021 or 6015348 or 6015486 or 6018730 or 6018731 or 6018732 or 6023691 or 6023692 or 6026386 or 6029156 or 6029158 or 6029159 or 6032141 or 6064998 or 6067537 or 6067538 or 6073127 or 6085184 or 6101489 or 6125358 or 6134539).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	~~1~~	4622013	1986-11-11	Cherichio			
	~~2~~	4874784	1989-10-17	Smith			
	~~3~~	4981766	1991-01-01	Aoike			
	~~4~~	4931950	1990-06-05	Isle			

	5	4964077	1990-10-16	Eisen
	6	4977529	1990-12-11	Gregg
	7	5002491	1991-03-26	Abrahamson
	8	5170464	1992-12-08	Hayes
	9	5189402	1993-02-23	Naimark
	10	5208745	1993-05-04	Quentin
	11	5208898	1993-05-04	Funabashi
	12	5239617	1993-08-24	Gardner
	13	5259755	1993-11-09	Irwin
	14	5267865	1993-12-07	Lee
	15	5310349	1994-05-10	Daniels
	16	5311422	1994-05-10	Loftin
	17	5317688	1994-05-31	Watson
	18	5326270	1994-07-05	Ostby
	19	5359701	1994-10-25	Fukui
	20	5327507	1994-07-05	Suzuki
	21	5395243	1995-03-07	Lubin
	22	5441415	1995-08-15	Lee
	23	5491743	1996-02-13	Shiio
	24	5533903	1996-07-09	Kennedy
	25	5535422	1996-07-09	Chiang
	26	5537141	1996-07-16	Harper
	27	5539869	1996-07-23	Spoto
	28	5566291	1996-10-15	Boulton
	29	5576844	1996-11-19	Anderson
	30	5577186	1996-11-19	Mann II
	31	5597312	1997-01-28	Bloom
	32	5616033	1997-04-01	Kerwin
	33	5644686	1997-07-01	Hekmatpour
	34	5644727	1997-07-01	Atkins
	35	5673369	1997-09-30	Kim
	36	5690496	1997-11-25	Kennedy
	37	5696885	1997-12-09	Hekmatpour
	38	5701400	1997-12-23	Amado
	39	5710007	1998-01-20	Luderer
	40	5727161	1998-03-10	Purcell

	~~41~~	5727950	1998-03-17	Cook
	~~42~~	5745652	1998-04-28	Bigus
	~~43~~	5772446	1998-06-30	Rosen
	~~44~~	5779468	1998-07-14	Helker
	~~45~~	5788508	1998-08-04	Lee
	~~46~~	5791907	1998-08-11	Ramshaw
	~~47~~	5799151	1998-08-25	Hoffer
	~~48~~	5799292	1998-08-25	Hekmatpour
	~~49~~	5806056	1998-09-08	Hekmatpour
	~~50~~	5810747	1998-09-22	Brudney
	~~51~~	5822745	1998-10-13	Hekmatpour
	~~52~~	5823781	1998-10-20	Hitchcock
	~~53~~	5823788	1998-10-20	Lemelson
	~~54~~	5835683	1998-11-10	Corella
	~~55~~	5868575	1999-02-09	Kuczewski
	~~56~~	5870768	1999-02-09	Hekmatpour
	~~57~~	5875437	1999-02-23	Atkins
	~~58~~	5889845	1999-03-30	Staples
	~~59~~	5893123	1999-04-06	Tuinenga
	~~60~~	5911581	1999-06-15	Reynolds
	~~61~~	5974446	1999-10-26	Sonnenreich
	~~62~~	5987443	1999-11-16	Nichols
	~~63~~	6003021	1999-12-14	Zadik
	~~64~~	6015348	2000-01-18	Lambright
	~~65~~	6015486	2000-01-18	Watanabe
	~~66~~	6018730	2000-01-25	Nichols
	~~67~~	6018731	2000-01-25	Bertrand
	~~68~~	6018732	2000-01-25	Bertrand
	~~69~~	6023691	2000-02-08	Bertrand
	~~70~~	6023692	2000-02-08	Nichols
	~~71~~	6026386	2000-02-15	Lannert
	~~72~~	6029156	2000-02-22	Lannert
	~~73~~	6029158	2000-02-22	Bertrand
	~~74~~	6029159	2000-02-22	Zorba
	~~75~~	6032141	2000-02-29	O'Connor
	~~76~~	6064998	2000-05-16	Zabloudil

	~~77~~	6067537	2000-05-23	O'Connor
	~~78~~	6067538	2000-05-23	Zorba
	~~79~~	6073127	2000-06-06	Lannert
	~~80~~	6085184	2000-07-04	Bertrand
	~~81~~	6101489	2000-08-08	Lannert
	~~82~~	6125358	2000-09-26	Hubbell
	~~83~~	6134539	2000-10-17	O'Connor

Signature

Examiner Name	Date
	3/25/8